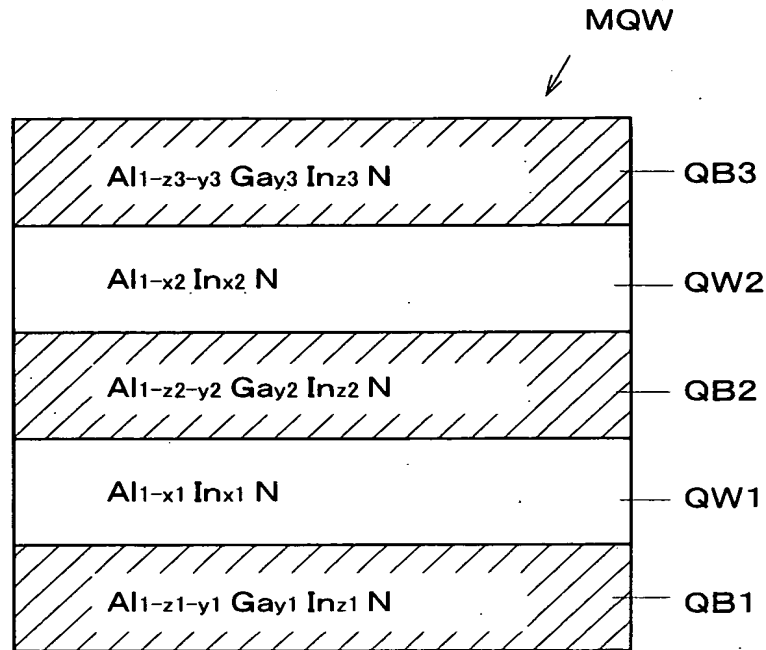


FIG. 1



QUANTUM WELL LAYER

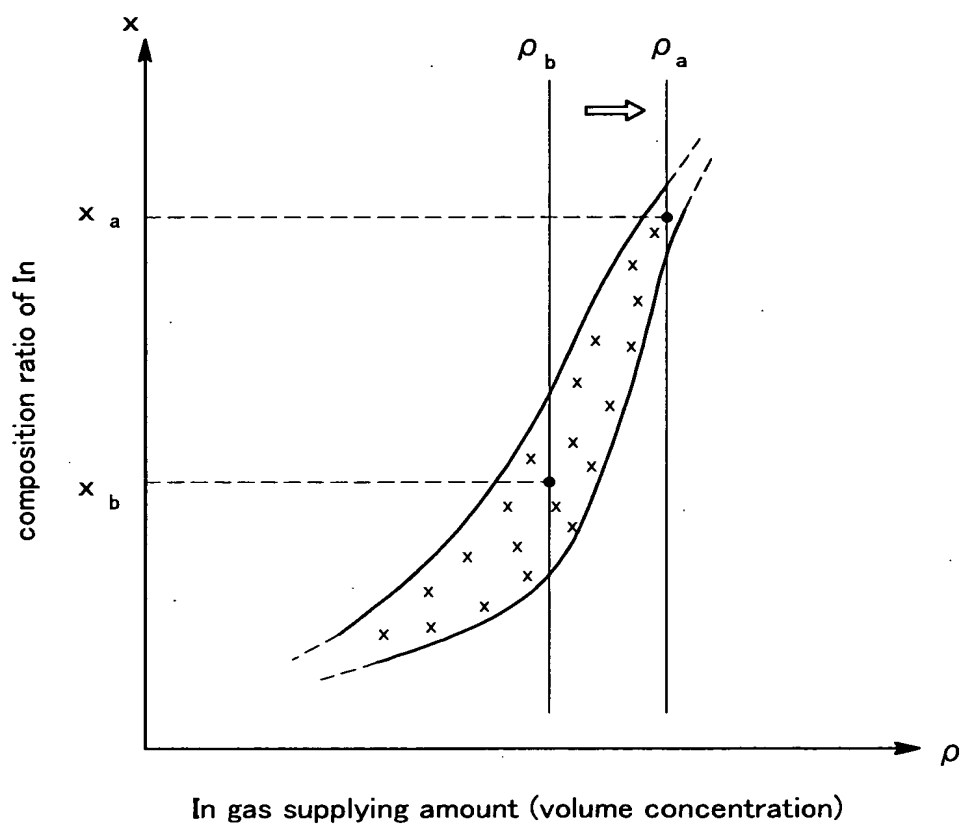
$$QW_n: 0 < x_n \leq 1 \quad \dots n=1, 2$$

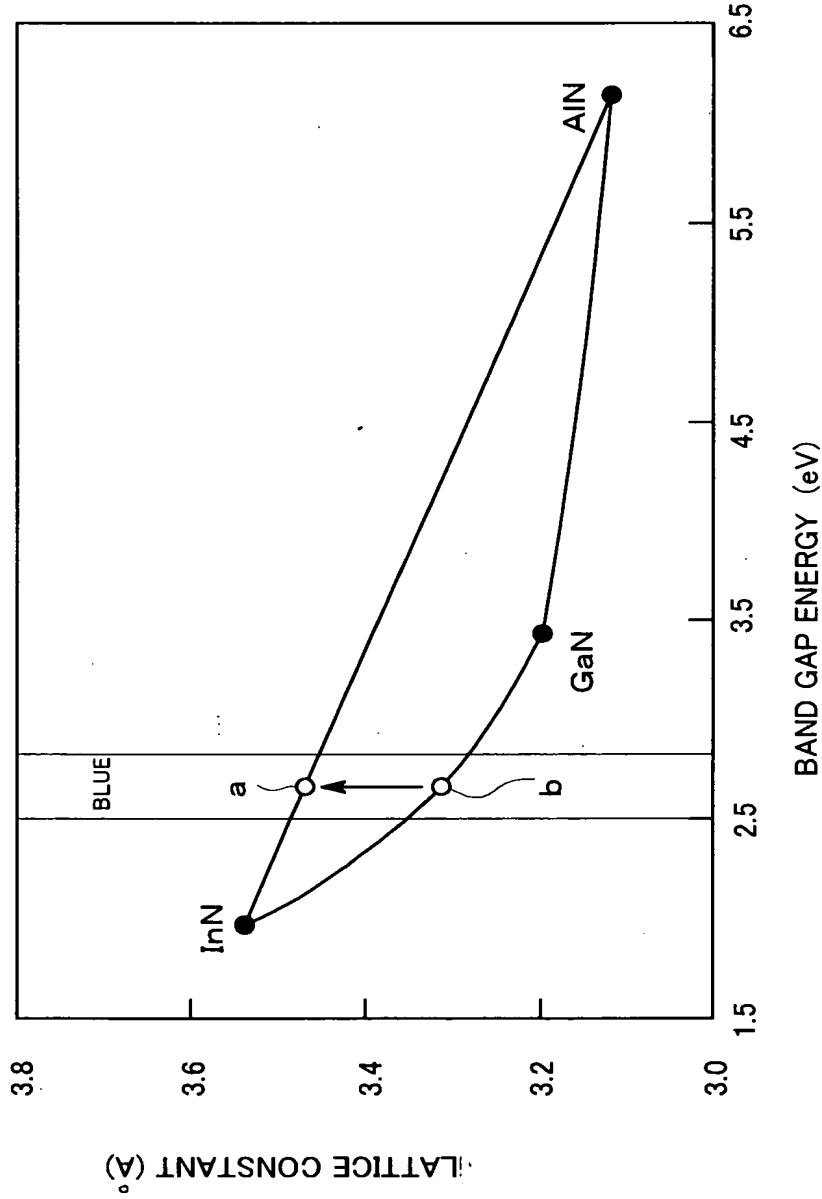
QUANTUM BARRIER LAYER

$$QB_m \left\{ \begin{array}{l} 0 \leq y_m \leq 1 \\ 0 \leq z_m < 1 \\ 0 \leq z_m + y_m \leq 1 \end{array} \right\} \quad m=1, 2, 3$$



FIG. 2





Point A: $\text{Al}_{1-x}\text{In}_x\text{N}$ ($x_a \approx 0.40$)

Point B: $\text{Ga}_{1-x}\text{In}_x\text{N}$ ($x_b \approx 0.15$)

FIG. 3

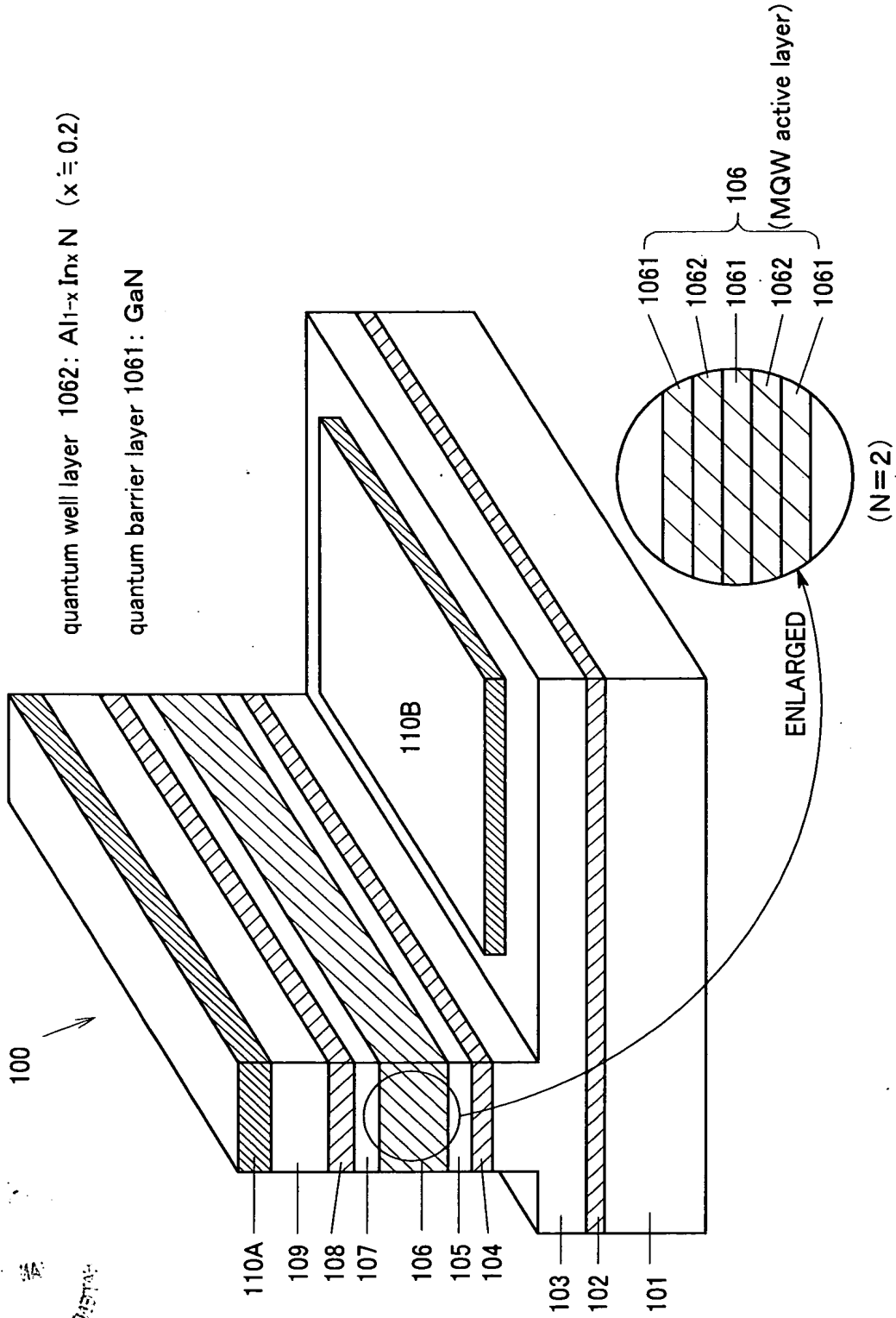


FIG. 5A

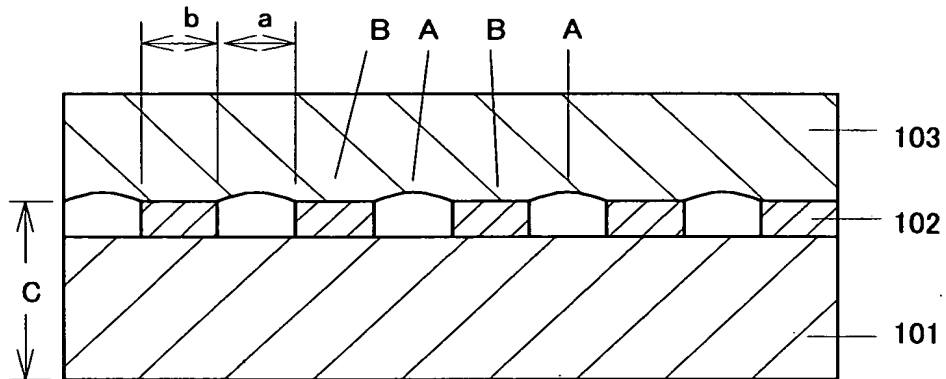


FIG. 5B

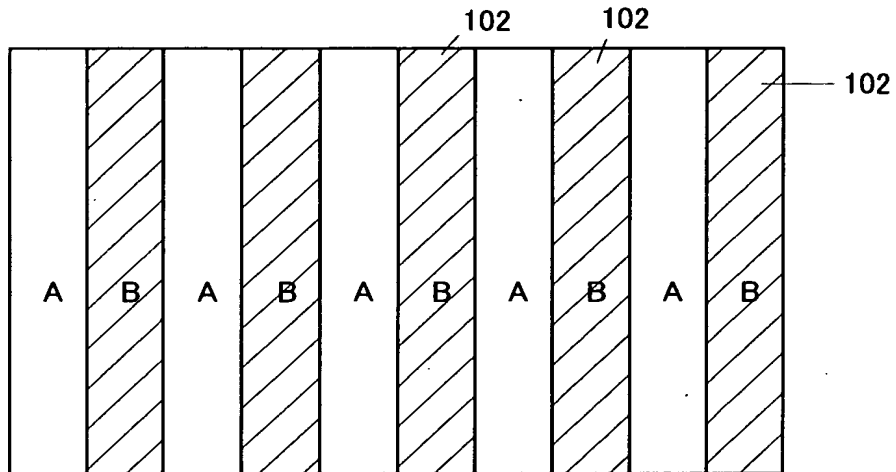


FIG. 5C

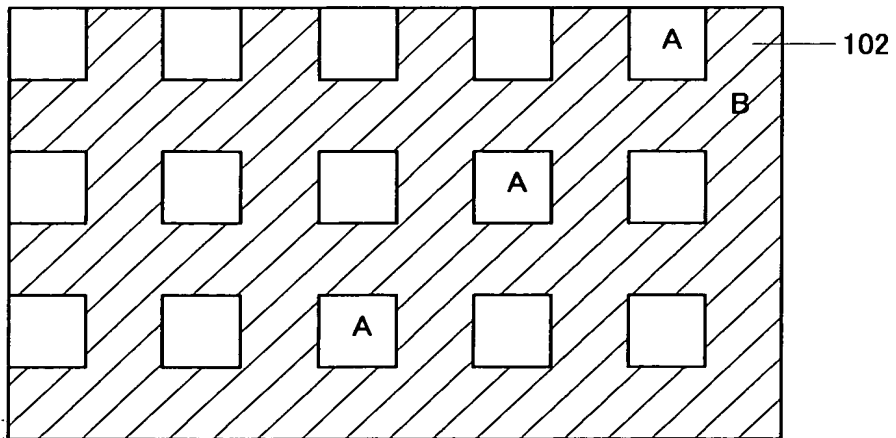


FIG. 6

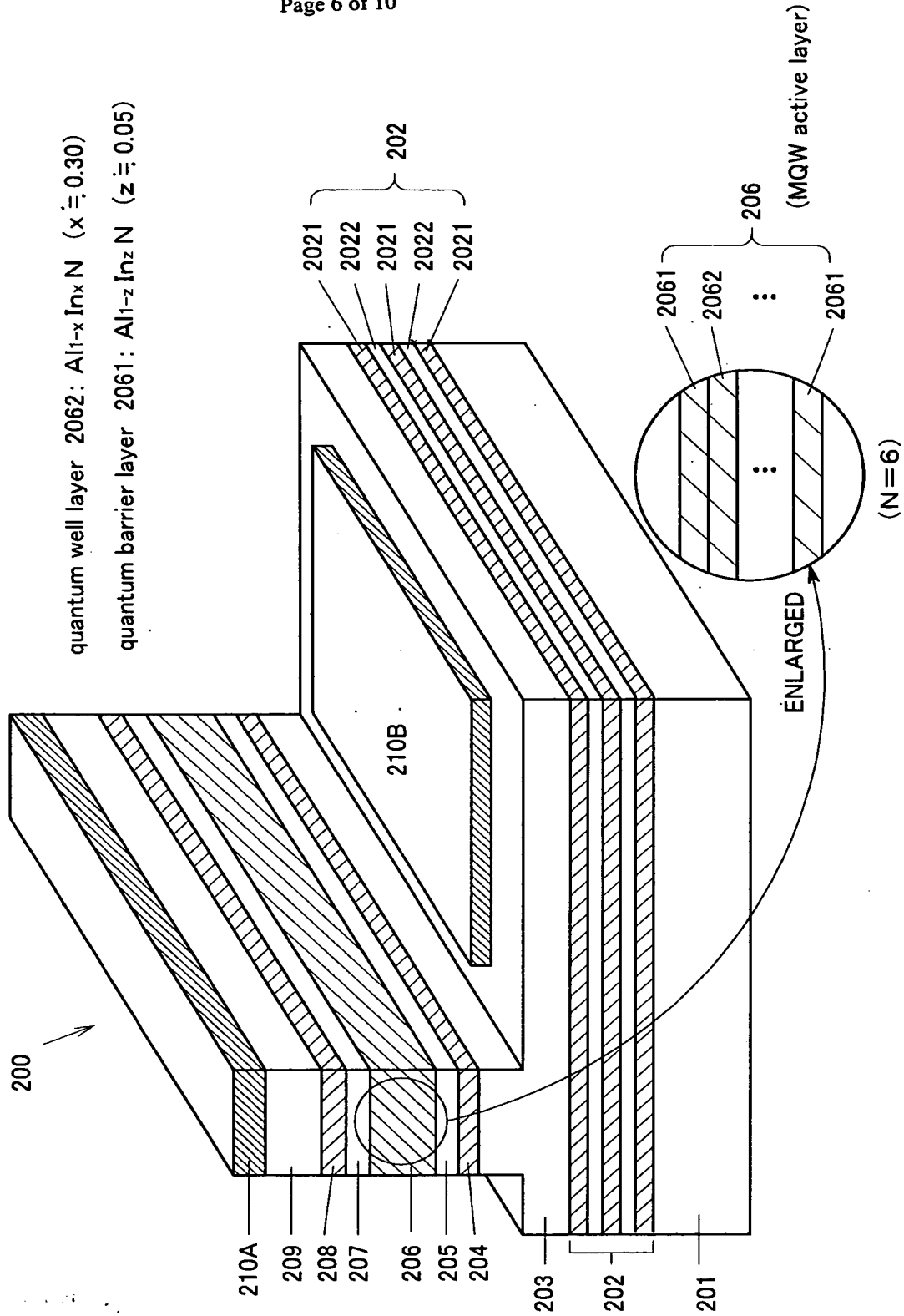


FIG. 7

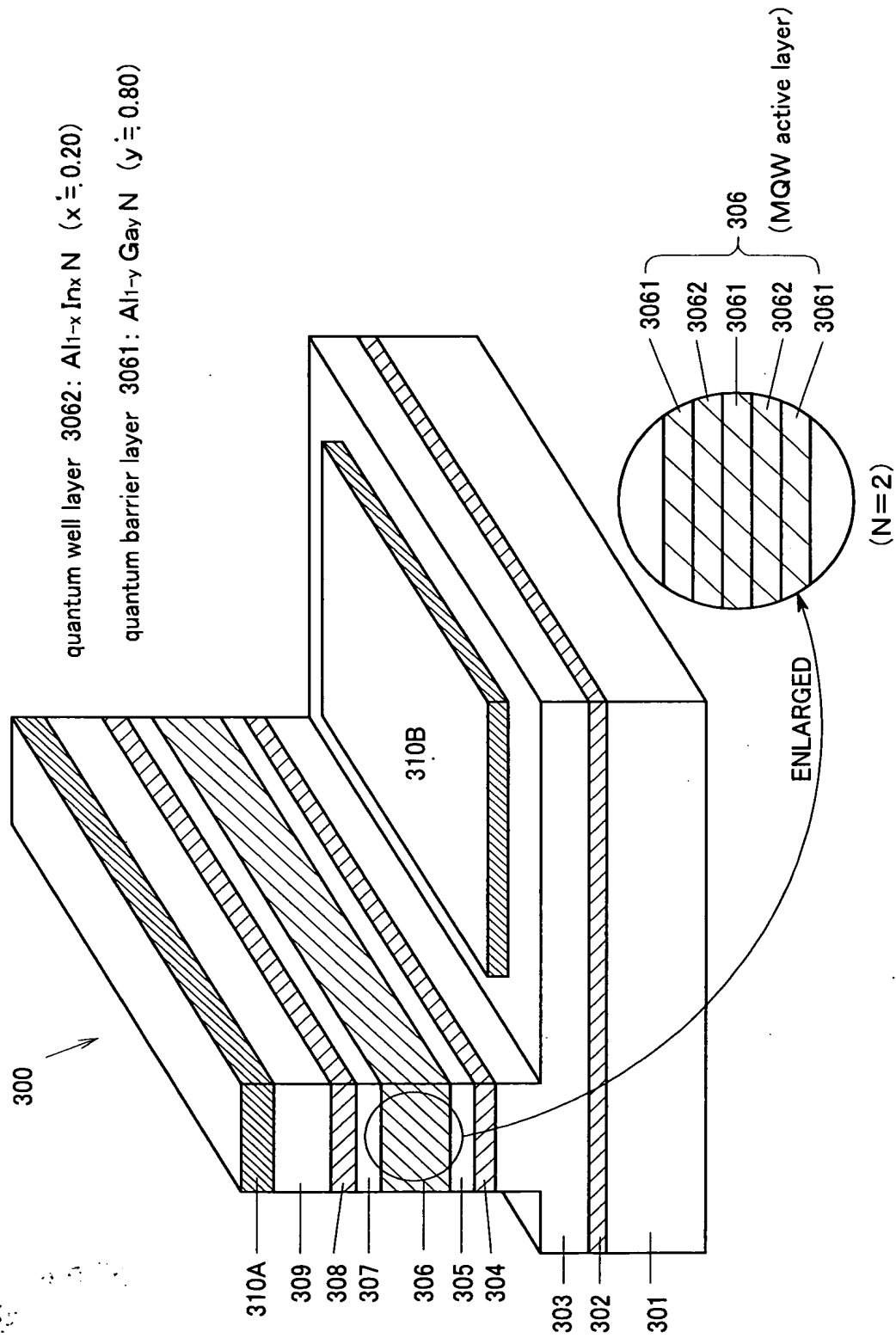


FIG. 8

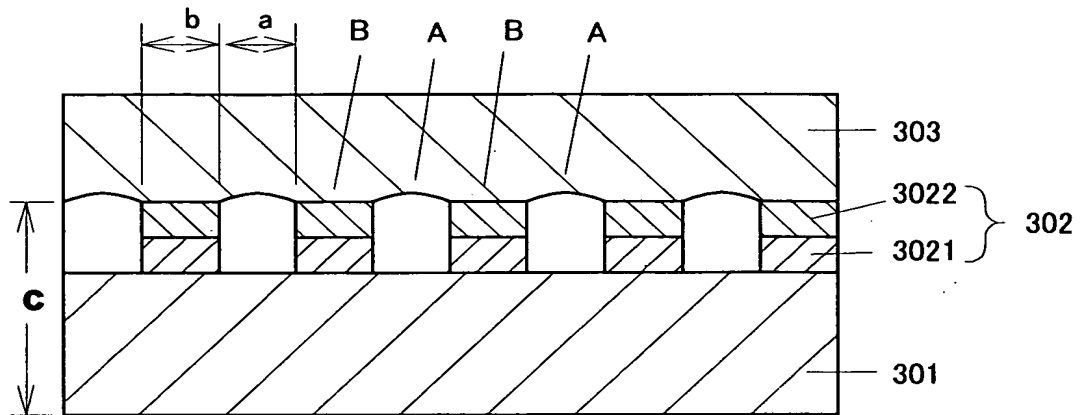


FIG. 8



FIG. 9

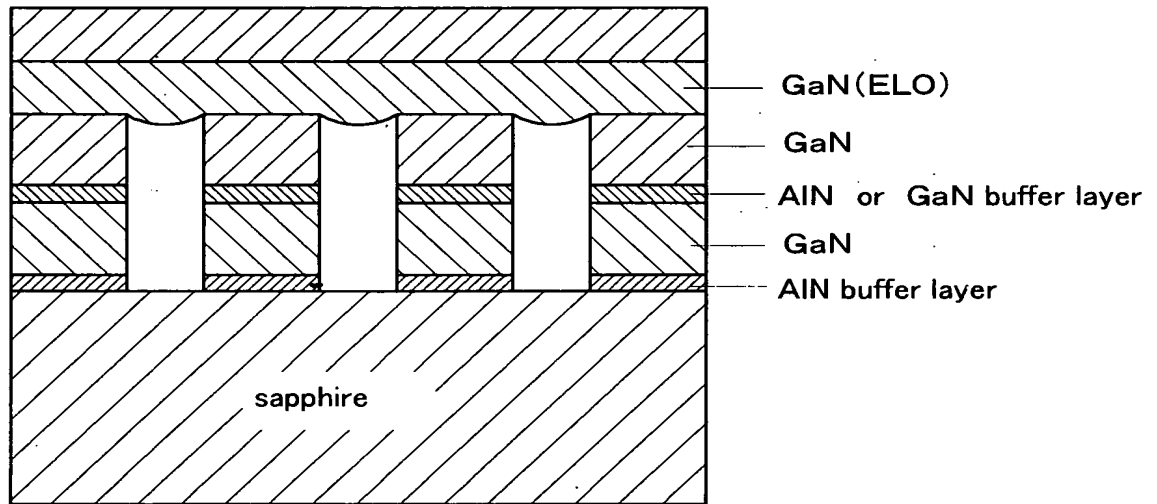
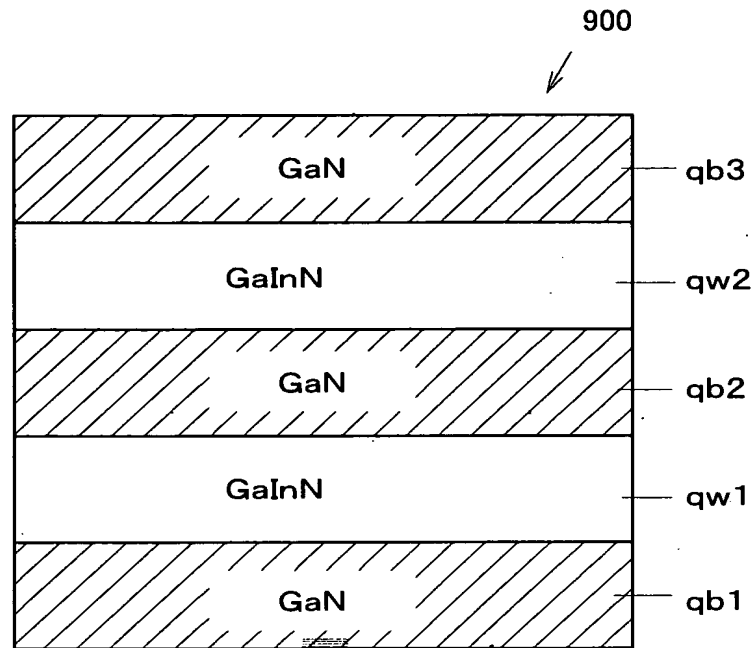


FIG. 9

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FIG. 10
(PRIOR ART)



qwn: quantum well layer ($n=1, 2$)

qbm: quantum barrier layer ($m=1, 2, 3$)